

UNITED STATES PATENT AND TRADEMARK OFFICE



APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/848,644	05	5/03/2001	Harold R. Kaufman	353-07 7230		
	7590	11/18/2002				
Dean P. Edm P. O. Box 179			EXAMINER			
Burton, TX 77835			HARPER, HOLLY R			
				ART UNIT	PAPER NUMBER	
				2879		
				DATE MAILED: 11/18/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

<i>7</i> 1 1		Application No.	Applicant(s)
Office Action Summary		09/848,644	KAUFMAN ET AL.
		Examiner	Art Unit
	The MAILING DATE of this communication	Holly R. Harper	2879
Period f	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	correspondence address
- External e	MORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Experiod for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely.
Status	Daniel Control		
1)	Responsive to communication(s) filed on		
2a)	This action is FINAL . 2b)⊠ This	s action is non-final.	
3) Dispositi	Since this application is in condition for allowar closed in accordance with the practice under <i>E</i> on of Claims	nce except for formal matters, pro x parte Quayle, 1935 C.D. 11, 48	osecution as to the merits is 53 O.G. 213.
	Claim(s) <u>1-9</u> is/are pending in the application.		
4	4a) Of the above claim(s) is/are withdrawn	n from consideration.	
5)⊠	Claim(s) <u>1-3 and 5-8</u> is/are allowed.		
6)⊠	Claim(s) <u>4 and 6</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
8) 🗌 (Application	Claim(s) are subject to restriction and/or e	election requirement.	
9)[] T	he specification is objected to by the Examiner.		
10)□ T	he drawing(s) filed on is/are: a)□ accepte	d or b) abjected to but the	
	Applicant may not request that any objection to the d	Irawing(s) he hold in showers and	iner.
11) 🔲 T	he proposed drawing correction filed on is	S: a) approved b) disapproved	: 37 CFR 1.85(a).
	If approved, corrected drawings are required in reply	to this Office action	ed by the Examiner.
12) 🗌 Ti	ne oath or declaration is objected to by the Exam	niner	
Priority un	der 35 U.S.C. §§ 119 and 120		
	cknowledgment is made of a claim for foreign pr	riority under 35 H.S.O. S.440()	
a)[_	All b) Some * c) None of:	19(a)-(a) or (f).
	Certified copies of the priority documents ha	ave hear received	
2	Certified copies of the priority documents ha	ave been received.	
3.	Copies of the certified copies of the priority	decuments be used in Application	No
* See	Copies of the certified copies of the priority application from the International Burea the attached detailed Office action for a list of the attached detailed Detail	he certified copies not received	
14)[_] Ack	mowledgment is made of a claim for domestic pr	riority under 35 U.S.C. & 119(e) (to a provisional application)
۵, ر	nowledgment is made of a claim for domestic p	onal application has been	
) Notice of Notice of Notice of One Informati	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summary (PT 5) Notice of Informal Pate 6) Other:	FO-413) Paper No(s) nt Application (PTO-152)
Patent and Trader O-326 (Rev. 0	nark Office 4-01) Office Action	C	

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DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 4 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaufman (USPN 5,763,989).

The Kaufman reference discloses an ion source with a discharge region (Column 13, Lines 38-39) containing an anode at one end (Column 13, Line 40) and an electron-emitting cathode near the other end (Column 13, Line 43). A magnetic field is in the discharge region between the anode and cathode (Column 1, Lines 45-46). Ionizable gas enters the anode through a flow-passage (Column 5, Lines 49-50 and Figure 11, element 46). Electrons flow from cathode to anode and the ions that do not recombine with electrons on surfaces of the anode and

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the magnetic poles and are accelerated outward by the electric field to form an energetic ion beam (Column 7, Lines 45-55). The Kaufman reference doesn't specifically disclose a baffle means configured so that more than one-third or more of the area of the anode cannot be reached by straight lines originating from a given point exterior of the ion source. The Kaufman reference does disclose an anode with two distinct pieces. They are electrically isolated and one could serve as a baffle means. It is in position to create a small aperture that would not allow more than one-third or more of the area of the anode to be reached by straight lines originating from a given point exterior of the ion source (Figure 12, element 102B). This will help protect the anode from contamination. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use part of the composite anode as a baffle means to protect the anode from contamination.

Allowable Subject Matter

- 4. Claims 1-3 and 5-8 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 2, 3, 6, 7, and 8 the prior art fails to disclose an electron-collecting surface that is contoured so as to increase the area of said surface by approximately one-third or more.

Regarding claim 5, claim 5 is allowable for the reasons given in claim 1 because of its dependency status from claim 1.

Contact Information

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Harper whose telephone number is (703) 305-7908. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (703) 305-4794. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7382.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Holly Harper Patent Examiner

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